

N\*m (kgf\*cm, ft.\*lbf): Specified torque

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## **REMOVAL**

### 1. REMOVE BRAKE BOOSTER WITH MASTER CYLINDER ASSEMBLY

#### HINT:

Refer to the procedure up to Remove Brake Booster with Master Cylinder Assembly

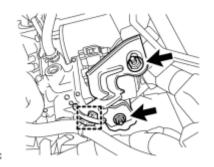
2. REMOVE FRONT CROSS MEMBER SUB-ASSEMBLY

#### HINT:

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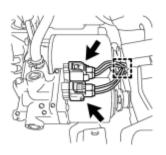
Refer to the procedure up to Remove Front Cross Member Sub-assembly

3. REMOVE NO. 5 BRAKE ACTUATOR BRACKET



(a) Remove the 2 nuts and No. 5 brake actuator bracket.

- (b) Separate the wire harness clamp.
- 4. REMOVE BRAKE BOOSTER PUMP ASSEMBLY WITH BRACKET

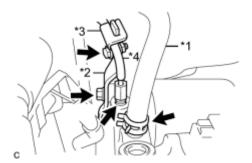


(a) Disconnect the 2 connectors and separate the clamp from the brake booster pump assembly.

(b) Remove the clip and brake actuator hose.

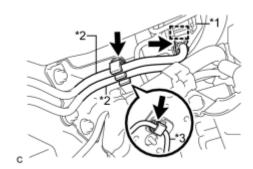
## **Text in Illustration**

	*1	Brake Actuator Hose	
Γ	*2	No. 2 Brake Tube Clamp	



*3	No. 1 Brake Tube Clamp
*4	Front No. 1 Brake Tube

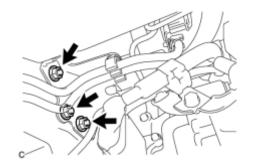
- (c) Remove the 2 bolts, No. 1 brake tube clamp and No. 2 brake tube clamp.
- (d) Disconnect the front No. 1 brake tube.



(e) Separate the wire harness clamp, 2 fuel lines and front No. 4 brake tube from the brake booster pump assembly.

## **Text in Illustration**

*1	Wire Harness Clamp	
*2	Fuel Line	
*3	Front No. 4 Brake Tube	



(f) Remove the 3 nuts and brake booster pump assembly with bracket.

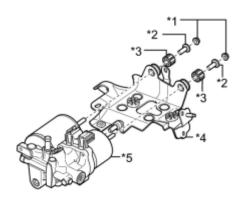
### 5. REMOVE BRAKE BOOSTER PUMP ASSEMBLY

(a) Remove the 2 nuts, brake booster pump bushings, brake actuator case collars and brake booster pump assembly from the brake actuator bracket assembly.

## **Text in Illustration**

*1	Nut	
*2	Brake Actuator Case Collar	
*3	Brake Booster Pump Bushing	
*4	Brake Actuator Bracket Assembly	

# \*5 Brake Booster Pump Assembly



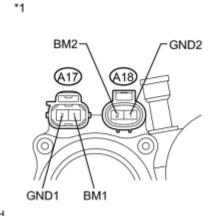
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# **INSPECTION**

### 1. INSPECT BRAKE BOOSTER PUMP ASSEMBLY

(a) Measure the resistance according to the value(s) in the table below.

### Standard Resistance:



<b>Tester Connection</b>	Condition	<b>Specified Condition</b>
A17-1 (BM1) - A17-2 (GND1)	Always	Below 10 Ω
A18-2 (BM2) - A18-1 (GND2)	Always	Below 10 Ω
A17-1 (BM1) - A18-2 (BM2)	Always	Below 1 Ω
A17-2 (GND1) - A18-1 (GND2)	Always	Below 1 Ω

# **Text in Illustration**

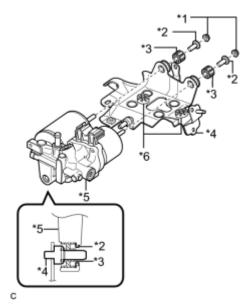
*1	Component without harness connected
	(Brake Booster Pump)

### INSTALLATION

#### 1. INSTALL BRAKE BOOSTER PUMP ASSEMBLY

(a) Install the brake booster pump assembly, brake booster pump bushings and brake actuator case collars to the brake actuator bracket assembly with the 2 nuts.

## **Text in Illustration**



*1	Nut	
*2	Brake Actuator Case Collar	
*3	Brake Booster Pump Bushing	
*4	Brake Actuator Bracket Assembly	
*5	Brake Booster Pump Assembly	
*6	Cushion	

Torque: 5.4 N·m (55 kgf·cm, 48in·lbf)

- Do not drop the brake booster pump assembly when carrying it.
- Do not carry the brake booster pump assembly by the connector.
- Confirm that the 2 cushions are on the brake actuator bracket, bushings and collars on the brake booster pump assembly when assembling the brake booster pump assembly.
- Do not remove the hole plug before installing a new brake booster pump assembly because the brake booster pump assembly is filled with brake fluid.

#### 2. INSTALL BRAKE BOOSTER PUMP ASSEMBLY WITH BRACKET

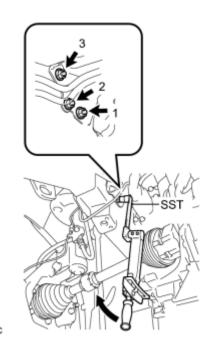
(a) Using SST, install the brake booster pump assembly with bracket with the 3 nuts.

SST: 09961-00950

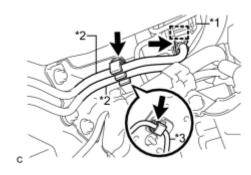
without SST - Torque: 19 N·m (194 kgf·cm, 14ft·lbf)

with SST - Torque: 12 N·m (121 kgf·cm, 9ft·lbf)

- Use a torque wrench with a fulcrum length of 250 mm (9.84 in.).
- Tighten the 3 nuts in the order shown in the illustration.
- Do not damage the fuel line, the brake lines and wire harness.
- Use the formula to calculate special torque values for situations where the SST is combined with a torque wrench NFO...



(b) Install the wire harness clamp, 2 fuel lines and front No. 4 brake tube to the brake booster pump assembly.



#### NOTICE:

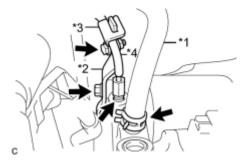
Do not damage the fuel line, the brake lines and wire harness.

## **Text in Illustration**

*1	Wire Harness Clamp	
*2	Fuel Line	
*3	Front No. 4 Brake Tube	

(c) Connect the front No. 1 brake tube.

(1) Install the No. 2 brake tube clamp to the brake booster pump assembly with the bolt.



Torque: 7.0 N·m (71 kgf·cm, 62in·lbf)

## **Text in Illustration**

*1	Brake Actuator Hose
*2	No. 2 Brake Tube Clamp
*3	No. 1 Brake Tube Clamp
*4	Front No. 1 Brake Tube

(2) Install the front No. 1 brake tube to the brake booster pump assembly.

Torque: 15 N·m (155 kgf·cm, 11ft·lbf)

### NOTICE:

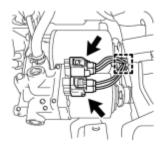
• This torque value is effective when the union nut wrench is parallel to the torque wrench.

• Use the formula to calculate special torque values for situations where the union nut wrench is combined with a torque wrench wrench.

(3) Install the No. 1 brake tube clamp to the brake booster pump assembly with the bolt.

Torque: 7.0 N·m (71 kgf·cm, 62in·lbf)

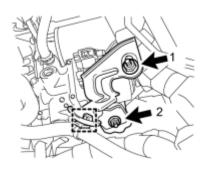
(d) Install the brake actuator hose and clip.



(e) Install the wire harness clamp.

(f) Connect the 2 connectors.

#### 3. INSTALL NO. 5 BRAKE ACTUATOR BRACKET



(a) Install the No. 5 brake actuator bracket with the 2 nuts.

Torque: 8.5 N·m (87 kgf·cm, 75in·lbf)

NOTICE:

Tighten the 2 nuts in the order shown in the illustration.

(b) Install the wire harness clamp.

#### 4. INSTALL FRONT CROSS MEMBER SUB-ASSEMBLY

HINT:

Refer to the procedure from Install Front Cross Member Sub-assembly

5. INSTALL BRAKE BOOSTER WITH MASTER CYLINDER ASSEMBLY

HINT:

Refer to the procedure from Install Brake Booster with Master Cylinder Assembly

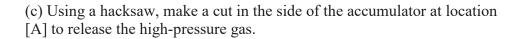
6. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT

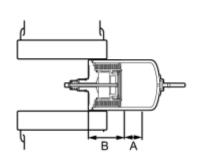
(a) Adjust front wheel alignment NFO.

## **DISPOSAL**

### 1. DISPOSE OF BRAKE BOOSTER PUMP ASSEMBLY

- (a) Remove the accumulator from the brake booster pump assembly.
- (b) Secure the accumulator in a vise.





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Point	Area
A	25 mm (0.984 in.)
В	60 mm (2.362 in.)

#### **CAUTION:**

Small pieces of metal may fly out when cutting into the accumulator. Put a cloth over the hacksaw when cutting the accumulator. Cut the accumulator slowly so that the gas will be released gradually.

#### HINT:

The gas is colorless, odorless and non-poisonous.